

In The Claims

Please amend the claims as follows:

1. (Currently Amended) A process for producing bimodal low-density ethylene copolymers suitable for film preparation, the process comprising:
 - (i) subjecting ethylene, hydrogen and comonomers to a first polymerisation or copolymerisation reaction in the presence of the polymerisation catalyst in a first reaction zone in a loop reactor to produce a first polymerisation product having a low molecular weight with a melt flow rate MFR_2 of 50 to 500 g/10 min, preferably of 100 to 400 g/10 min and a density of 940 to 955 kg/m^3 , preferably 945 to 953 kg/m^3 ;
 - (ii) recovering the first polymerisation product from the first reaction zone;
 - (iii) feeding the first polymerisation product to a second reaction zone in a gas phase reactor;
 - (iv) feeding additional ethylene, comonomers and, optionally, hydrogen to the second reaction zone;
 - (v) subjecting the additional ethylene and additional monomer(s) and, optionally, hydrogen to a second polymerisation reaction in the presence of the said polymerisation catalyst and the first polymerisation product;
 - (vi) to produce a polymer composition comprising from 41 to 48 % by weight of the low molecular weight polymer produced in step (i), and from 59 to 52 % by weight of the high molecular weight polymer produced in step (v); and
 - (vii) the bimodal low-density ethylene copolymer has a melt flow rate in the range MFR_2 of 0.4 to 1.0 g/10 min, preferably 0.4

to ~~0.7 g/10 min~~ and a density of 918 to 925 kg/m³; and

(viii) recovering the combined polymerisation product from the second reaction zone.

2. (Original) A process according to Claim 1, wherein the said polymerisation catalyst has been prepared by contacting a particular support material with (i) an alkyl aluminium chloride compound; (ii) a reaction product of magnesium alkyl and an alcohol selected from linear and branched alcohols containing 6 to 16 carbon atoms, and (iii) a chlorine containing titanium compound.
3. (Original) A process according to Claim 2, wherein the particulate support material has a volume average particle size of 15-30 μm .
4. (Currently Amended) A process according to Claims 2-~~or~~ 3, wherein the particulate support material is silica.
5. (Currently Amended) A process for preparing a polymer film, comprising the steps of: (i) manufacturing the polymer according to ~~Claim 1~~the process comprising: (a) subjecting ethylene, hydrogen and comonomers to a first polymerisation or copolymerisation reaction in the presence of the polymerisation catalyst in a first reaction zone in a loop reactor to produce a first polymerisation product having a low molecular weight with a melt flow rate MFR₂ of 50 to 500 g/10 min and a density of 940 to 955 kg/m³; (b) recovering the first polymerisation product from the first reaction zone; (c) feeding the first polymerisation product to a second reaction zone in a gas phase reactor; (d) feeding additional ethylene, comonomers and, optionally, hydrogen to the second reaction zone; (e) subjecting the additional ethylene and additional monomer(s) and, optionally, hydrogen to a second polymerisation reaction in the presence of the said polymerisation catalyst and the first polymerisation product; (f) to produce a polymer composition comprising from 41 to 48 % by weight of the low molecular weight polymer produced in step (a),

and from 59 to 52 % by weight of the high molecular weight polymer produced in step (e); (g) the bimodal low-density ethylene copolymer has a melt flow rate in the range MFR₂ of 0.4 to 1.0 g/10 and a density of 918 to 925 kg/m³; and (h) recovering the combined polymerisation product from the second reaction zone.; (ii) optionally mixing the polymer with additives; (iii) optionally, extruding the polymer into pellets₁; and (iv) extruding the polymer composition into a film.

6. (Original) A process according to Claim 5, wherein the film is prepared by blowing.
7. (Currently Amended) A film made of linear low-density polyethylene, which polyethylene comprises
 - (i) a low molecular weight component with a melt flow rate MFR₂ of 50 to 500 g/10 min, ~~preferably of 100 to 400 g/10 min~~ and a density of 940 to 955 kg/m³, ~~preferably 945 to 953 kg/m³~~, and
 - (ii) a high molecular weight component having a higher molecular weight, a lower melt flow rate and a lower density than the low molecular weight component (i), so that the polymer composition comprises from 41 to 48 % by weight of the low molecular weight component (i), and from 59 to 52 % by weight of the high molecular weight component (ii), and the composition has a melt flow rate MFR₂ in the range 0.4 to 1.0 g/10 min ~~g/10 min~~, ~~preferably 0.4 to 0.7 g/10 min~~ and a density of 918 to 925 kg/m³, wherein said film has no gels having a size greater than 0.4 mm.
8. (Cancelled)
9. (Currently Amended) A film according to Claim 7 ~~or 8~~, wherein the film has a dart drop of at least 100 grams, tear strength in machine direction of at least 1.5 N and tear strength in transverse direction of at least 6 N.

10. (Original) A film according to claim 9, wherein the film has art drop of at least 150 grams, tear strength in machine direction of at least 2.0 N and tear strength in transverse direction of at least 7.5 N.
11. (NEW) A process according to claim 1, wherein said first polymerisation product has a melt flow rate MFR_2 of 100 to 400 g/10 min and a density of 945 to 953 kg/m³.
12. (NEW) A process according to claim 1, wherein said bimodal low-density ethylene copolymer has a melt flow rate in the range MFR_2 of 0.4 to 0.7 g/10 min.
13. (NEW) A film according to claim 7, wherein said first polymerisation product has a melt flow rate MFR_2 of 100 to 400 g/10 min and a density of 945 to 953 kg/m³.
14. (NEW) A film according to claim 7, wherein said bimodal low-density ethylene copolymer has a melt flow rate in the range MFR_2 of 0.4 to 0.7 g/10 min.